

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. (withdrawn): A method for measuring a free insulin receptor α -subunit in blood, wherein the method comprises the steps of:

(1) contacting a blood sample with an antibody recognizing the insulin receptor α -subunit;

(2) detecting binding of said antibody to the insulin receptor α -subunit present in blood; and

(3) determining the amount of free insulin receptor α -subunit in blood based on the level of binding detected between said antibody and subunit.

2. (withdrawn): The method of claim 1, wherein the antibody recognizing the insulin receptor α -subunit is a first antibody that is bound to a solid phase or comprises a label that can be bound to a solid phase, and the method comprises the step of detecting the insulin receptor α -subunit bound to the first antibody by binding a second antibody recognizing the insulin receptor α -subunit.

3. (withdrawn): A reagent for measuring a free insulin receptor α -subunit in blood, wherein the reagent comprises an antibody recognizing the insulin receptor α -subunit.

4. (previously presented): A method for diagnosing diabetes, wherein the method comprises the steps of:

a) measuring the amount of a free insulin receptor α -subunit in a biological sample of a subject;

b) comparing the amount of the free insulin receptor α -subunit with that of a control; and

c) determining the subject to have diabetes when the amount of free insulin receptor α -subunit in the biological sample of the subject is greater than that of the control.

5. (previously presented): The method for diagnosis of claim 4, wherein the biological sample is a blood sample.

6. (previously presented): The method for diagnosis of claim 5, wherein the amount of the free insulin receptor α -subunit is measured by the method of claim 1.

7. (withdrawn): A reagent for diagnosing diabetes, wherein the reagent comprises an antibody recognizing a peptide comprising the amino acid sequence of an insulin receptor α -subunit.

8. (withdrawn): A method for diagnosing cancer, wherein the method comprises the steps of:

(a) measuring the amount of a free insulin receptor α -subunit in a biological sample of a subject;

(b) comparing the amount of the free insulin receptor α -subunit with that of a control; and

(c) determining the subject to have cancer when the amount of the free insulin receptor α -subunit in the biological sample of the subject is greater than that of the control.

9. (withdrawn): The method for diagnosis of claim 8, wherein the biological sample is a blood sample.

10. (withdrawn): The method for diagnosis of claim 9, wherein the amount of the free insulin receptor α -subunit is measured by the method of claim 1.

11. (withdrawn): A reagent for diagnosing cancer, wherein the reagent comprises an antibody recognizing a peptide comprising the amino acid sequence of an insulin receptor α -subunit.